

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



10/523787



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/016021 A1

- (51) International Patent Classification⁷: H04Q 7/34, 7/38
- (21) International Application Number:
PCT/KR2003/001506
- (22) International Filing Date: 28 July 2003 (28.07.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10-2002-0047212 9 August 2002 (09.08.2002) KR
- (71) Applicant (for all designated States except US): SK TELECOM CO., LTD [KR/KR]; 99, Seorin-Dong, Jongro-Ku, Seoul 110-110 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HAHM, Hee Hyeok [KR/KR]; 705-2602, Shindong-A River-Park, Noryangin-dong, Dongak-gu, Seoul 156-050 (KR). KIM, Ki Mun [KR/KR]; 202-401, Shinmyung-Boram Apt., 497-1,

Boogae 3-dong, Boopyung-gu, Incheon-si 403-103 (KR). LEE, Sang Yun [KR/KR]; 109-802, Saetbyul Apt., Bundang-dong, Bundang-gu, Seongnam, Kyunggi-do 463-030 (KR). NO, Yeong Tae [KR/KR]; 201, Choongang Apt., 1684-9, Shinrim 12-dong, Gwanak-gu, Seoul 151-796 (KR).

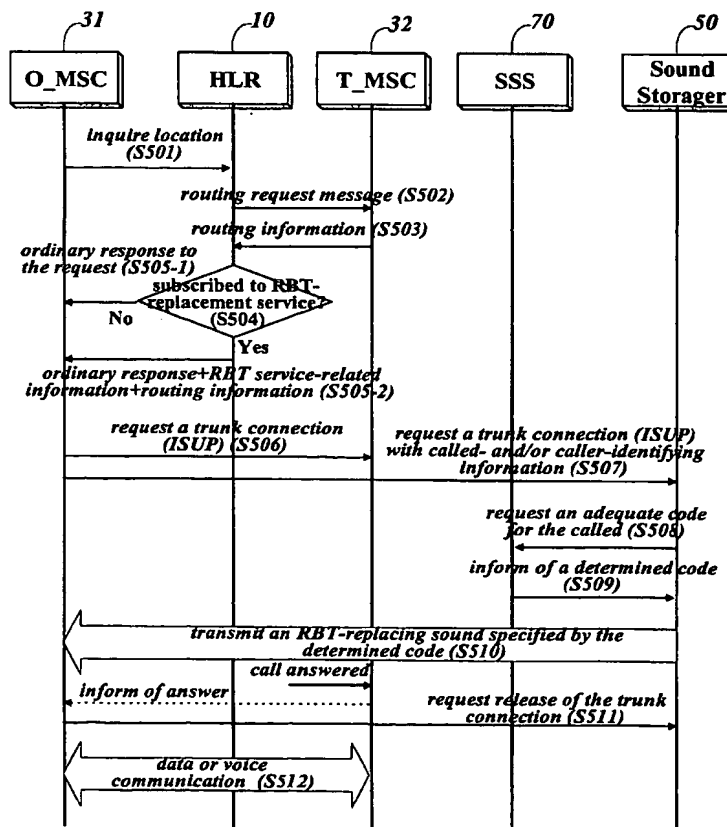
(74) Agent: PARK, Lae Bong; 1Fl., Dongun Bldg., 413-4 Dogok 2-dong, Kangnam-gu, Seoul 135-272 (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: METHOD FOR PROVIDING SUBSCRIBER-BASED RINGBACK TONE THROUGH A CALL-ORIGINATING EXCHANGER



(57) Abstract: The present invention relates to method for providing an arbitrary sound, chosen by a called subscriber, instead of ringback tone to a calling subscriber through a call-originating exchanger. In this present invention, if a call is generated to an exchanger, the call-originating exchanger requests a trunk connection to a sound db server based on the first information on whether or not to replace an RBT (RingBack Tone) and the second information on a route to the sound db server that are received from a home location register (HLR), and provides a called subscriber identification for the sound db server. Then, the sound db server searches its db for a sound specified by the called, and provides the found sound for the caller instead of a conventional RBT via the originating exchanger connected through a trunk. Through this sequential procedure of network elements, a caller can hear a sound specified by a called instead of a dry RBT.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*